

Claims

- [c1] 1. A method of stripping cured paint from plastic, aluminum, brass, magnesium, galvanized steel, zinc die cast, and non-ferrous metal substrates comprising: a) adding a stripping composition to a strip tank, said stripping composition consisting of a mixture of, not limited to, two surfactants selected from the group consisting; surfactants, non-ionic surfactants, anionic surfactants, cationic surfactants, amphoteric surfactants, acetate based surfactants, acetylene based, surfactants, solvent based surfactants, phosphate ester surfactants, acid pH based surfactants, alkaline pH based surfactants, neutral pH surfactants, sulfonic acid surfactants, phosphoric acid surfactants, fatty acid based surfactants, inorganic acid based surfactants, carboxylate based surfactants, alkylate based surfactants, alcohol based surfactants, nonylphenol surfactants, oxide-based surfactants, sulfur based surfactants, alkylphenol containing surfactants, ethoxylated surfactants, sulphonated surfactants, amine based surfactants, amide surfactants, glycol based surfactants and quaternary surfactants and surfactant blends thereof, comprising 51% to 100% of the total weight of the composition, with the remaining

0.5% to 49% by weight balance consisting of additives selected by the group consisting; water, organic solvents, alcohols, aliphatic solvents, polar solvents, non-polar solvents, naphtha, oxygenated solvents, chlorinated solvents, acetones, ketones, acetates, terpene solvents, esters, acetylene solvents, glycols, ethers, propionate solvents, carbonates, aromatic solvents, kerosene, fatty acid based solvents, vegetable based solvents, acids, inorganic acids, organic acids, fatty acids, lactic acids, glycolic acids, alkaline hydroxides, alkaline silicates, phosphates, sulfates, nitrates, alkaline salts, acid salts, ethanol amines, peroxides, oxidizers, rust inhibitors, chelators, defoamers, surfactants and mixtures thereof; b) immersing said cured painted substrate in said strip tank containing said stripping composition; and c) heating said stripping composition in a range of 150F to 350F degrees for approximately 1–3 hours, wherein cured paint is removed from said substrate.

[c2] 2. The method of claim 1, wherein said first surfactant is in the range of 0.5–99.5 percent by weight.

[c3] 3. The method of claim 1, wherein said second surfactant is in the range of 0.5–99.5 percent by weight.

[c4] 4. The method of claim 2, wherein said first surfactant is in the range of 1–51 percent by weight.

- [c5] 5. The method of claim 3, wherein said second surfactant is in the range of 1–51 percent by weight.
- [c6] 6. The method of claim 1, wherein said additives is in the range of 0.5–49 percent by weight.
- [c7] 7. The method of claim 2, wherein said first surfactant is dodecylbenzene sulfonic acid or a surfactant selected from the group consisting; surfactants, non-ionic surfactants, anionic surfactants, cationic surfactants, amphoteric surfactants, acetate based surfactants, acetylene based surfactants, solvent based surfactants, phosphate ester surfactants, acid pH based surfactants, alkaline pH based surfactants, neutral pH surfactants, sulfonic acid surfactants, phosphoric acid surfactants, fatty acid based surfactants, inorganic acid based surfactants, carboxylate based surfactants, alkylate based surfactants, alcohol based surfactants, nonylphenol surfactants, oxide-based surfactants, sulfur based surfactants, alkylphenol containing surfactants, ethoxylated surfactants, sulphonate based surfactants, amine based surfactants, amide surfactants, glycol based surfactants and quaternary surfactants and surfactant mixtures thereof.
- [c8] 8. The method of claim 3, wherein said second surfactant is tridecylbenzene sulfonic acid or a surfactant se-

lected from the group consisting; surfactants, non-ionic surfactants, anionic surfactants, cationic surfactants, amphoteric surfactants, acetate based surfactants, acetylene based surfactants, solvent based surfactants, phosphate ester surfactants, acid pH based surfactants, alkaline pH based surfactants, neutral pH surfactants, sulfonic acid surfactants, phosphoric acid surfactants, fatty acid based surfactants, inorganic acid based surfactants, carboxylate based surfactants, alkylate based surfactants, alcohol based surfactants, nonylphenol surfactants, oxide-based surfactants, sulfur based surfactants, alkylphenol containing surfactants, ethoxylated surfactants, sulphonate based surfactants, amine based surfactants, amide surfactants, glycol based surfactants and quaternary surfactants and surfactant blends thereof.

- [c9] 9. The method of claim 6, wherein said additive is glycolic acid or an additive selected from the group consisting; water, organic solvents, alcohols, aliphatic solvents, polar solvents, non-polar solvents, naphtha, oxygenated solvents, chlorinated solvents, acetones, ketones, acetates, terpene solvents, esters, acetylene solvents, glycols, ethers, propionate solvents, carbonates, aromatic solvents, kerosene, fatty acid based solvents, vegetable based solvents, acids, inorganic acids, organic acids,

fatty acids, lactic acids, glycolic acids, alkaline hydroxides, alkaline silicates, phosphates, sulfates, nitrates, alkaline salts, acid salts, ethanol amines, peroxides, oxidizers, rust inhibitors, chelators, defoamers, surfactants and mixtures thereof; in the range of 0.5–49 percent by weight.